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- (54) **Title:** SYSTEMS AND METHODS FOR ENHANCED HEAT TRANSFER LOOPS

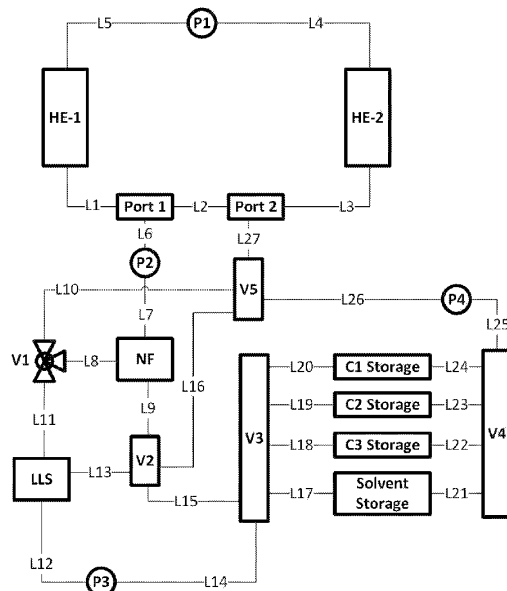


Figure 1

- (57) **Abstract:** The present application pertains to processes and systems for enhanced heat transfer. In some embodiments a process is described for removing a portion of a chemical from a heat transfer loop comprising a heat transfer fluid. The process may comprise adding a solvent to the heat transfer fluid in the heat transfer loop; removing at least a portion of the heat transfer fluid from the heat transfer loop; separating said removed heat transfer fluid into a permeate and a retentate using a membrane; and adding at least a portion of the permeate to the heat transfer fluid in the heat transfer loop.

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